



Roy F. Weston, Inc.
Suite B125
187 Ballardvale Street
Wilmington, Massachusetts 01887-1062
508-988-7000 • Fax 508-988-7093

Superfund Records Center

SITE: New Bedford

BREAK: 10/21/96

OTHER: 03886-118-002-0700-00

21 October 1996

Work Order No. 03886-118-002-0700-00

Mr. Maurice Beaudoin, Resident Engineer
Department of the Army
New England Division, Corps of Engineers
New Bedford Resident Office
103 Sawyer Street
New Bedford, MA 02746

*Paul
FYI
Action
File*

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN-NBH-102196-AAHK

Subject: Quarterly Groundwater Sampling Results - Third Quarter 1996

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 25 September 1996. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, the total and dissolved concentrations of cadmium in MW-3 exceeded the cadmium U.S. EPA Maximum Contaminant Level (MCL) of 5.0 parts per billion (ppb), and the dissolved concentration of lead in MW-3 exceeded the lead MCL of 15.0 ppb. No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 25 September 1996 groundwater sampling results are attached.

During the groundwater sampling event on 25 September 1996, the depression area located east of the Confined Disposal Facility (CDF) was inundated with standing water to a maximum depth of approximately 1.5 feet. Monitoring wells MW-2 and MW-3 are located in this area, and the depth of standing water in the vicinity of these two wells was observed to be approximately one foot. Standing water in the vicinity of these wells may affect the natural, measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.





Mr. Maurice Beaudoin
U.S. Army Corps of Engineers

2

21 October 1996

Please call me at (508) 988-7000 if you have any questions regarding this Letter Report.

Very Truly Yours,

ROY F. WESTON, INC.

James S. Chow
Assistant Geoscientist II

JSC/jja

cc: T. Abdella (WESTON)
L. Lemay [WESTON DCN File (2)]
M. Otis (CENED)
Project File (WIL)

Inter-Office Memorandum



TO: James Chow

FROM: Diane Quigley

DATE: October 18, 1996

W.O. NO.: 03886-118-002-0700-00

SUBJECT: New Bedford Harbor Sawyer St. Site Data Validation

ACTION:

The data for quarterly groundwater samples 001-0996 to 007-0996, 106-0996 and 202-0996 from 9/25/96 were reviewed. Chain of custody documents, method blank data, matrix spike (MS) and laboratory control spike data as well as surrogate recoveries and sample duplicate data were reviewed. The following deficiencies were noted.

A. Filtered Samples

1. Sample 004-0996; Estimate the non-detected lead result due to poor MS/MSD recoveries.

B. Unfiltered Samples

1. Copper appeared in rinsate blank 202-0996: $0.0130 \text{ mg/L} \times 5 = 0.0650 \text{ mg/L}$ Action Level. Therefore, positive copper results should be qualified as undetected (U) in samples 001-0996, 002-0996, 004-0996, 005-0996, 006-0996, 007-0996 and 106-0996.
2. The non-detected lead result in sample 004-0996 should be estimated (UJ) due to poor MS/MSD results.
3. The positive lead result in sample 006-0996 (0.0033 mg/L) should be estimated (J) and the non-detected lead result (UJ) in field duplicate sample 106-0996 since field duplicate criteria was not met.

If you have any questions please call me.



LLI Sample No. WW 2589057

Collected: 9/25/96 at 14:00 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

001-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
01996 SDG#: NBH12-01

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027	mg/l
1751	Chromium	N.D.	0.0043	mg/l
1753	Copper	0.0193 J	0.0038	mg/l
1055	Lead (furnace method)	0.0112 J	0.0060	mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.			
0173	PCBs in Water			

→ ND due to detection in
rinsing blank

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:08:43 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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A division of Thermo Analytical Inc.

Page: 2 of 5

LLI Sample No. WW 2589057
Collected: 9/25/96 at 14:00 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

001-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
01996 SDG#: NBH12-01

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.		
0640	PCB-1221	N.D.	0.054	ug/l
0641	PCB-1232	N.D.	0.15	ug/l
0642	PCB-1242	N.D.	0.060	ug/l
0643	PCB-1248	N.D.	0.13	ug/l
0644	PCB-1254	N.D.	0.048	ug/l
0645	PCB-1260	N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2661

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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Analysis Report

Page: 1 of 5

LLI Sample No. WW 2589058

Collected: 9/25/96 at 11:50 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

002-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
02996 SDG#: NBH12-02

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	0.0137 J	0.0038 mg/l → ND
1055	Lead (furnace method)	N.D.	0.012 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:09:06 D 0003 12 123814 535298
320 0.00 00010504 ASR000

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Lancaster Laboratories
2425 New Road and Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2631

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

See reverse side for analysis



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ANALYSIS REPORT

Page: 2 of 5

LLI Sample No. WW 2589058

Collected: 9/25/96 at 11:50 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

002-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
02996 SDG#: NBH12-02

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.		
0640	PCB-1221	N.D.	0.054	ug/l
0641	PCB-1232	N.D.	0.15	ug/l
0642	PCB-1242	N.D.	0.060	ug/l
0643	PCB-1248	N.D.	0.13	ug/l
0644	PCB-1254	N.D.	0.048	ug/l
0645	PCB-1260	N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

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Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2581

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

See reverse side for explanation



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Page: 1 of 5

LLI Sample No. WW 2589059
Collected: 9/25/96 at 12:15 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

003-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
03996 SDG#: NBH12-03

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.025	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	0.156	0.0038 mg/l
1055	Lead (furnace method)	N.D.	0.0060 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:09:27 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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Page: 2 of 5

LLI Sample No. WW 2589059
Collected: 9/25/96 at 12:15 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

003-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
03996 SOG#: NBH12-03

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Ref. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221			
0641	PCB-1232	N.D.	0.054	ug/l
0642	PCB-1242	N.D.	0.15	ug/l
0643	PCB-1248	N.D.	0.060	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	N.D.	0.048	ug/l
		N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

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Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589060
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

004-0996 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SDG#: NBH12-048KG

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/L
1751	Chromium	N.D.	0.0043 mg/L
1753	Copper	0.0038 J	0.0038 mg/L
1055	Lead (furnace method)	N.D.	0.012 mg/L
0173	The quantitation limit for lead was increased due to the nature of the sample matrix. PCBs in Water		

1. See Page 2

→ ND
→ is non-detected
lead results
since low
ms/msd
recovery

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ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
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05:09:49 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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Page: 2 of 5

LLI Sample No. WW 2589060
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

004-0996 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SOG#: NBH12-04BKG

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED			
		RESULTS	METHOD	DETECTION LIMIT	UNITS
PCBs in Water					
0639	PCB-1016				
0640	PCB-1221				
0641	PCB-1232	N.D.		0.054	ug/l
0642	PCB-1242	N.D.		0.15	ug/l
0643	PCB-1248	N.D.		0.060	ug/l
0644	PCB-1254	0.19	J	0.13	ug/l
0645	PCB-1260	N.D.		0.048	ug/l
		N.D.		0.18	ug/l
		N.D.		0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.					

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Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589061
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

004-0996 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SDG#: NBH12-04MS

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.045	0.0027 mg/l
1751	Chromium	0.197	0.0043 mg/l
1753	Copper	0.261	0.0038 mg/l
1055	Lead (furnace method)	0.019 J	0.012 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

MS

4. See Page 2

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:10:11 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2301

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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LLI Sample No. WW 2589061
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

004-0996 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SDG#: NBH12-04MS

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

METHOD

CAT
NO. ANALYSIS NAME

RESULTS DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	15.	0.2	ug/l
0640	PCB-1221	N.D.	0.5	ug/l
0641	PCB-1232	N.D.	0.2	ug/l
0642	PCB-1242	N.D.	0.4	ug/l
0643	PCB-1248	N.D.	0.2	ug/l
0644	PCB-1254	N.D.	0.6	ug/l
0645	PCB-1260	17.	0.1	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

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Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216



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Page: 1 of 5

LLI Sample No. WW 2589062

Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

004-0996 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SOG#: NBH12-04MSD

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.045	0.0027 mg/L
1751	Chromium	0.199	0.0043 mg/L
1753	Copper	0.255	0.0038 mg/L
1055	Lead (furnace method)	0.014 J	0.012 mg/L
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

4. See Page 2

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:10:34 D 0003 12 123814 535298
320 0.00 00010504 ASR000

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Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

See reverse side for explanation of symbols and abbreviations



LLI Sample No. WW 2589062
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

004-0996 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002
04996 SDG#: NBH12-04MSD

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	15.	0.2	ug/l
0640	PCB-1221	N.D.	0.5	ug/l
0641	PCB-1232	N.D.	0.2	ug/l
0642	PCB-1242	N.D.	0.4	ug/l
0643	PCB-1248	N.D.	0.2	ug/l
0644	PCB-1254	N.D.	0.6	ug/l
0645	PCB-1260	17.	0.1	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 FAX 717-656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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Page: 1 of 5

LLI Sample No. WW 2589064

Collected: 9/25/96 at 10:20 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

005-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
05996 SOG#: NBH12-05

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	0.0098 J	0.0038 mg/l → ND
1055	Lead (furnace method)	N.D.	0.0060 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
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ATTN: Bryce Fletcher
ATTN: Mr. James Chow

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F. Bradley Ayars at (717) 656-2300
05:11:08 D 0003 12 123814 535298
320 0.00 00010504 ASR000

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Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

See reverse side for explanation of



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Page: 2 of 5

LLI Sample No. WW 2589064

Collected: 9/25/96 at 10:20 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

005-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
05996 SDG#: NBH12-05

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

LLI Sample No. WW 2589065
Collected: 9/25/96 at 12:50 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

006-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
06996 SDG#: NBH12-06

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME
1749	Cadmium
1751	Chromium
1753	Copper
1055	Lead (furnace method)
0173	PCBs in Water

AS RECEIVED	METHOD	DETECTION LIMIT	UNITS
N.D.	0.0027	mg/l	
N.D.	0.0043	mg/l	
0.0166	0.0038	mg/l	>ND
0.0033	0.0012	mg/l	
	1.	See Page 2	

Field Dip
106-0996

0071 J
N.D. estimate 4J

Estimate
lead result
in
006-0996
due to
poor RPD
in
106-0996

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:11:29 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pk
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589065
Collected: 9/25/96 at 12:50 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

006-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
06996 SDG#: NBH12-06

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.		
0640	PCB-1221			
0641	PCB-1232			
0642	PCB-1242	N.D.	0.054	ug/l
0643	PCB-1248	N.D.	0.15	ug/l
0644	PCB-1254	N.D.	0.060	ug/l
0645	PCB-1260	N.D.	0.13	ug/l
		N.D.	0.048	ug/l
		N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pkwy
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589067

Collected: 9/25/96 at 13:10 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

106-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
16996 SDG#: MBH12-08

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027	mg/l
1751	Chromium	N.D.	0.0043	mg/l
1753	Copper	0.0071 J	0.0038	mg/l → ND
1055	Lead (furnace method)	N.D.	0.0060	mg/l → ND
	The quantitation limit for lead was increased due to the nature of the sample matrix.			
0173	PCBs in Water			

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:12:13 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589067
Collected: 9/25/96 at 13:10 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

106-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
16996 SOG#: NBH12-08

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT
NO. ANALYSIS NAME

PCBs in Water

AS RECEIVED
RESULTS METHOD
DETECTION LIMIT UNITS

0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-0425

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589066
Collected: 9/25/96 at 14:50 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

007-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
07996 SDG#: NBH12-07

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/L
1751	Chromium	0.0180 J	0.0043 mg/L
1753	Copper	0.025	0.0038 mg/L
1055	Lead (furnace method)	N.D.	0.0060 mg/L
	The quantitation limit for Lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:11:52 D 0003 12 123814 535298
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589066

Collected: 9/25/96 at 14:50 by JC

Submitted: 9/27/96 Reported: 10/10/96

Discard: 11/10/96

007-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
07996 SDG#: NBH12-07

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221			
0641	PCB-1232	N.D.	0.054	ug/l
0642	PCB-1242	N.D.	0.15	ug/l
0643	PCB-1248	N.D.	0.060	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	N.D.	0.048	ug/l
		N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
(717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589068
Collected: 9/25/96 at 15:00 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

202-0996 Grab Water Sample

US ACOE-New Bedford 03886-118-002
20296 SDG#: NBH12-09

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

Rinsate Blank

CAT NO.	ANALYSIS NAME
1749	Cadmium
1751	Chromium
1753	Copper
1055	Lead (furnace method)
0173	PCBs in Water

AS RECEIVED	METHOD	DETECTION LIMIT	UNITS
RESULTS			
N.D.	0.0027	mg/l	
N.D.	0.0043	mg/l	
0.0130 J	0.0038	mg/l	
N.D.	0.0012	mg/l	
	1.	See Page 2	

x 5 = .0650 Action Limit

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:12:37 D 0003 12 123814 535298
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589068
Collected: 9/25/96 at 15:00 by JC

Submitted: 9/27/96 Reported: 10/10/96
Discard: 11/10/96

202-0996 Grab Water Sample

US ACDE-New Bedford 03886-118-002
20296 SDG#: NBH12-09

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221			
0641	PCB-1232	N.D.	0.054	ug/l
0642	PCB-1242	N.D.	0.15	ug/l
0643	PCB-1248	N.D.	0.060	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	N.D.	0.048	ug/l
		N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories

A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589078

Collected: 9/25/96 at 14:00 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

001-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F1996 SDG#: NBH13-01

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	0.027	0.0038 mg/l
1055	Lead (furnace method)	N.D.	0.0012 mg/l
0173	PCBs in Water		1. See Page 2

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:48:50 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17603-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

See reverse side for additional information



LLI Sample No. WW 2589078
Collected: 9/25/96 at 14:00 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

001-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F1996 SDG#: NBH13-01

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT
NO. ANALYSIS NAME

AS RECEIVED
RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 FAX 717-656-2301

Respectfully Submitted
Jennifer E. Hess, B.S.
Group Leader Pesticides/PCBs

LLI Sample No. WW 2589079

Collected: 9/25/96 at 11:50 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

002-0996 Filtered Grab Water Sample

US ACDE-New Bedford 03886-118-002
F2996 SDG#: NBH13-02

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	0.0192 J	0.0038 mg/l
1055	Lead (furnace method)	0.0113 J	0.0060 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

This sample was field filtered for dissolved metals
and PCBs.

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:49:05 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 5

LLI Sample No. WW 2589079

Collected: 9/25/96 at 11:50 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

002-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F2996 SDG#: NBH13-02

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report quantitation limits.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589080

Collected: 9/25/96 at 12:15 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

003-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F3996 SDG#: NBH13-03

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.024	0.0027 mg/L
1751	Chromium	N.D.	0.0043 mg/L
1753	Copper	0.088	0.0038 mg/L
1055	Lead (furnace method)	0.016 J	0.012 mg/L
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

1. See Page 2

This sample was field filtered for dissolved metals
and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:49:24 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates

See reverse side for explanation of symbols and abbreviations.

2216 Tel. 5101-24



LLI Sample No. WW 2589080
Collected: 9/25/96 at 12:15 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

003-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F3996 SDG#: NBH13-03

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





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A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589081

Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

004-0996 Filtered Unspiked Grab Water Sample

US ACDE-New Bedford 03886-118-002
F4996 SOG#: NBH13-048KG

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/L
1751	Chromium	N.D.	0.0043 mg/L
1753	Copper	N.D.	0.0038 mg/L
1055	Lead (furnace method)	N.D.	0.012 mg/L
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

This sample was field filtered for dissolved metals and PCBs.

See Page 2

*→ 4 non-detect (lead)
due to poor
ins/mtd
recovery*

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:49:42 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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A division of Thermo Analytical Inc.

Page: 2 of 5

LLI Sample No. WW 2589081
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

004-0996 Filtered Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002
F4996 SDG#: NBH13-048KG

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT
NO. ANALYSIS NAME

AS RECEIVED
RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589082

Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

004-0996 Filtered Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002
F4996 SDG#: NBH13-04MS

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.045	0.0027 mg/L
1751	Chromium	0.190	0.0043 mg/L
1753	Copper	0.241	0.0038 mg/L
1055	Lead (furnace method)	N.D.	0.012 mg/L
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

See Page 2

This sample was field filtered for dissolved metals
and PCBs

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:50:03 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



Lancaster Laboratories

A division of Thermo Analytical Inc.

Page: 2 of 5

LLI Sample No. WW 2589082

Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

004-0996 Filtered Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002
F4996 SDG#: NBH13-04MS

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016		
0640	PCB-1221	5.5	0.054 ug/l
0641	PCB-1232	N.D.	0.15 ug/l
0642	PCB-1242	N.D.	0.060 ug/l
0643	PCB-1248	N.D.	0.13 ug/l
0644	PCB-1254	N.D.	0.048 ug/l
0645	PCB-1260	N.D.	0.18 ug/l
		6.0	0.045 ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589083
Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

004-0996 Filtered Matrix Spike Dup. Grab Water

US ACDE-New Bedford 03886-118-002
F4996 SDG#: NBH13-04MSD

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	0.045	0.0027 mg/l
1751	Chromium	0.192	0.0043 mg/l
1753	Copper	0.244	0.0038 mg/l
1055	Lead (furnace method)	N.D.	0.012 mg/l
	The quantitation limit for Lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

This sample was field filtered for dissolved metals
and PCBs.

See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:50:21 D 0003 12 123814 535303
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
(717) 656-2300

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



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Page: 2 of 5

LLI Sample No. WW 2589083

Collected: 9/25/96 at 10:45 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

004-0996 Filtered Matrix Spike Dup. Grab Water

US ACOE-New Bedford 03886-118-002
F4996 SDG#: NBH13-04MSD

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221	5.6	0.054	ug/l
0641	PCB-1232	N.D.	0.15	ug/l
0642	PCB-1242	N.D.	0.060	ug/l
0643	PCB-1248	N.D.	0.13	ug/l
0644	PCB-1254	N.D.	0.048	ug/l
0645	PCB-1260	N.D.	0.18	ug/l
		6.1	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

See reverse side for analytical results



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Page: 1 of 5

LLI Sample No. WW 2589085
Collected: 9/25/96 at 10:20 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

005-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
FS996 SDG#: NBH13-05

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	N.D.	0.0038 mg/l
1055	Lead (furnace method)	0.0080 J	0.0060 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		

This sample was field filtered for dissolved metals and PCBs.

1. See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:50:52 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2331

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589085
Collected: 9/25/96 at 10:20 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

005-0996 Filtered Grab Water Sample

US ACDE-New Bedford 03886-118-002
F5996 SDG#: NBH13-05

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to perform quantitation limits. Th				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17602

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 5

LLI Sample No. WW 2589086
Collected: 9/25/96 at 12:50 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

006-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F6996 SDG#: NBH13-06

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	N.D.	0.0038 mg/l
1055	Lead (furnace method)	N.D.	0.0012 mg/l
0173	PCBs in Water		1. See Page 2

This sample was field filtered for dissolved metals
and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:51:13 D 0003 12 123814 535303
320 0.00 00010504 ASR000

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2667

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



Lancaster Laboratories

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Page: 2 of 5

LLI Sample No. WW 2589086

Collected: 9/25/96 at 12:50 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

006-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002

F6996 SDG#: NBH13-06

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Ref. 03886-118-002

CAT. NO. ANALYSIS NAME

AS RECEIVED
RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.054	ug/l
0640	PCB-1221	N.D.	0.15	ug/l
0641	PCB-1232	N.D.	0.060	ug/l
0642	PCB-1242	N.D.	0.13	ug/l
0643	PCB-1248	N.D.	0.048	ug/l
0644	PCB-1254	N.D.	0.18	ug/l
0645	PCB-1260	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

MEMBER
ACIL

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2661

Respectfully Submitted
Jennifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589088
Collected: 9/25/96 at 13:10 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

106-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F1696 SDG#: NBH13-11

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT
NO. ANALYSIS NAME

1749 Cadmium
1751 Chromium
1753 Copper
1055 Lead (furnace method)
0173 PCBs in Water

AS RECEIVED
RESULTS METHOD
DETECTION LIMIT UNITS

N.D.	0.0027	mg/l
N.D.	0.0043	mg/l
N.D.	0.0038	mg/l
0.0015 J	0.0012	mg/l
	1.	See Page 2

This sample was field filtered for dissolved metals
and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:51:57 D 0003 12 123814 535303
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589088
Collected: 9/25/96 at 13:10 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

106-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F1696 SDG#: NBH13-11

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED			
		RESULTS	METHOD DETECTION LIMIT	UNITS	
PCBs in Water					
0639	PCB-1016				
0640	PCB-1221				
0641	PCB-1232	N.D.	0.054	ug/l	
0642	PCB-1242	N.D.	0.15	ug/l	
0643	PCB-1248	N.D.	0.060	ug/l	
0644	PCB-1254	N.D.	0.13	ug/l	
0645	PCB-1260	N.D.	0.048	ug/l	
		N.D.	0.18	ug/l	
		N.D.	0.045	ug/l	
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.					

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2661

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589087
Collected: 9/25/96 at 14:50 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

007-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F7996 SDG#: NBH13-10

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/L
1751	Chromium	N.D.	0.0043 mg/L
1753	Copper	N.D.	0.0038 mg/L
1055	Lead (furnace method)	N.D.	0.0012 mg/L
0173	PCBs in Water	N.D.	1. See Page 2

This sample was field filtered for dissolved metals
and PCBs

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayers at (717) 656-2300
05:51:34 D 0003 12 123814 535303
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



LLI Sample No. WW 2589087
Collected: 9/25/96 at 14:50 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

007-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F7996 SDG#: NBH13-10

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221			
0641	PCB-1232	N.D.	0.054	ug/l
0642	PCB-1242	N.D.	0.15	ug/l
0643	PCB-1248	N.D.	0.060	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	N.D.	0.048	ug/l
		N.D.	0.18	ug/l
		N.D.	0.045	ug/l
Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.				

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster PA 17605-2425
717-656-2300 Fax 717-656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



LLI Sample No. WW 2589089
Collected: 9/25/96 at 15:00 by JC

Submitted: 9/27/96 Reported: 10/11/96
Discard: 11/11/96

202-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002
F2296 SDG#: NBH13-12

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0027 mg/l
1751	Chromium	N.D.	0.0043 mg/l
1753	Copper	N.D.	0.0038 mg/l
1055	Lead (furnace method)	N.D.	0.0012 mg/l
0173	PCBs in Water	N.D.	1. See Page 2

*RESINATE
BLANK*

This sample was field filtered for dissolved metals
and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
05:52:14 D 0003 12 123814 535303
320 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425

Lancaster, PA 17605-12425

Respectfully Submitted
Ramona V. Layman, Group Leader
ICP Metals/Leachates



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 5

LLI Sample No. WW 2589089

Collected: 9/25/96 at 15:00 by JC

Submitted: 9/27/96 Reported: 10/11/96

Discard: 11/11/96

202-0996 Filtered Grab Water Sample

US ACOE-New Bedford 03886-118-002

F2296 SDG#: NBH13-12

Account No: 08947
Roy F. Weston, Inc.
7 Eagle Square
Concord NH 03301-4955

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016			
0640	PCB-1221	N.D.	0.054	ug/l
0641	PCB-1232	N.D.	0.15	ug/l
0642	PCB-1242	N.D.	0.060	ug/l
0643	PCB-1248	N.D.	0.13	ug/l
0644	PCB-1254	N.D.	0.048	ug/l
0645	PCB-1260	N.D.	0.18	ug/l
	Due to insufficient sample size, no more results	N.D.	0.045	ug/l

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
(717) 656-2300 Fax (717) 656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs